

OCT 30 2006

CLAIM AMENDMENTS

1. (Currently Amended) A method usable with a subterranean well, comprising:
~~deploying a casing conveyed tool in a subterranean well;~~
~~disposing the casing conveyed tool in a casing in the well such that the casing conveyed tool does not substantially obstruct a central passageway of the casing prior to actuation of the tool;~~
communicating a wireless stimulus downhole in the well; and
actuating ~~the a casing conveyed tool~~ perforating gun in response to the communication;
and
communicating another wireless stimulus from a transmitter integrated with a casing string uphole to confirm firing of the perforating gun.

2.-6. (Cancelled)

7. (Currently Amended) The method of claim 1, wherein the communicating the wireless stimulus downhole comprises:
transmitting an electromagnetic wave from the surface of the well through at least one formation.

8. (Currently Amended) The method of claim 1, wherein the communicating the wireless stimulus downhole comprises:
communicating a seismic wave from the surface of the well through at least one formation.

9. (Currently Amended) The method of claim 1, wherein the communicating the wireless stimulus downhole comprises:
communicating an acoustic wave downhole.

10. (Currently Amended) The method of claim 9, further comprising:
communicating the acoustic wave on at least one of a production tubing and [[a]] the casing string.

11. (Currently Amended) The method of claim 1, wherein the communicating the wireless stimulus downhole comprises:

communicating a pressure pulse downhole.

12. (Original) The method of claim 11, further comprising:
communicating the pressure pulse through at least one of a fluid in a production tubing and a fluid in an annulus.

13. (Currently Amended) The method of claim 1, further comprising:
encoding the stimulus to indicate a command; and
decoding the stimulus near the ~~tool~~ perforating gun to extract the command.

14. (Currently Amended) A system usable with a subterranean well, comprising:
a casing string comprising a casing conveyed tool perforating gun located downhole in the well, the casing conveyed tool adapted to be installed with a casing of the well and not substantially obstruct a central passageway of the casing prior to actuation of the tool; and
an apparatus to communicate a wireless stimulus downhole to the ~~tool~~ perforating gun to actuate the ~~tool~~ perforating gun; and
a transmitter integrated with the casing string to communicate another wireless stimulus uphole to confirm firing of the perforating gun.

15. (Cancelled)

16. (Currently Amended) The system of claim ~~15~~ 14, further comprising:
a firing system to fire the perforating gun in response to the wireless stimulus.

17.-19. (Cancelled)

20. (Original) The system of claim 14, wherein the apparatus is adapted to transmit an electromagnetic wave from the surface to the tool through at least one formation.

21. (Original) The system of claim 14, wherein the apparatus is adapted to communicate a seismic wave from the surface through at least one formation.
22. (Currently Amended) The system of claim 14, wherein the apparatus is adapted to communicate an acoustic wave downhole to actuate the ~~tool~~ perforating gun.
23. (Original) The system of claim 22, wherein said apparatus is further adapted to communicate the acoustic wave using at least one of a production tubing and a casing string.
24. (Currently Amended) The system of claim 14, where the apparatus is adapted to communicate a pressure pulse downhole to actuate the ~~tool~~ perforating gun.
25. (Original) The system of claim 24, wherein the apparatus is further adapted to communicate the pressure pulse through at least one of a fluid in a production tubing and a fluid in an annulus.
26. (Currently Amended) The system of claim 14, wherein the apparatus is further adapted to:
- encode the stimulus to indicate a command, and
 - decode the stimulus near the ~~tool~~ perforating gun to extract the command.

27. (Currently Amended) A ~~tool~~ perforating gun comprising:

~~a first mechanism perforating charges~~ adapted to be embedded in a casing string section to perform a downhole function, ~~the first mechanism adapted to not substantially obstruct a central passageway of the casing string section prior to the first mechanism performing the downhole function; and~~

a second mechanism adapted to respond to a wireless stimulus transmitted from a surface of the well to actuate fire ~~the first mechanism to cause the first mechanism to perform the downhole function perforating charges; and~~

a transmitter embedded in the casing string section to communicate another wireless stimulus uphole to confirm firing of the perforating charges.

28. (Cancelled)

29. (Original) The tool of claim 27, wherein the stimulus comprises at least one of the following:

an acoustic wave, an electromagnetic wave, a seismic wave and a fluid pressure pulse.

30. (Currently Amended) The tool of claim 27, wherein the second mechanism is integrated into the casing string section.

31. (Cancelled)